

I. AMENDMENTS

Amendments to the Claims:

This listing of all pending claims (including withdrawn claims) will replace all prior versions, and listings, of claims in the application. Cancelled and not entered claims are indicated with claim number and status only. The claims show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Listing of Claims:

- 1.- (Currently Amended) A pump having a sealing mechanism comprising: (a) a main body-(1) having a first surface-(11), (b) a attachment body-(3) having first means for attachment to a bottle neck, (c) second means for attachment of a dip tube, (d) an inlet valve-(9), (e) a second surface-(13) facing said first surface-(11), where said first surface-(11) and said second surface-(13) define a pumping chamber-(17), and (f) a discharge valve-(43) at the an outlet of said pumping chamber (17), where said first surface-(11) and said second surface-(13) are adapted to perform a relative movement therebetween causing the pumping of a liquid between said inlet valve-(9) and said discharge valve-(43), wherein said attachment body-(3) is attached to said main body (1) ~~with possibility of a~~ for relative displacement between an open position and a closed position and wherein said attachment body-(3) ~~comprises~~ includes a projection which, when said attachment body-(3) and said main body-(1) are in said closed position, prevents said second surface-(13) from performing said relative movement.
- 2.- (Currently Amended) The pump of claim 1, wherein said projection is a tubular stem-(27) surrounding said inlet valve-(9).
- 3.- (Currently Amended) The pump of ~~claim 1 or~~ claim 2, wherein said projection is hermetically sealed against said second surface-(13) when said attachment body-(3) and said main body-(1) are in said closed position.
- 4.- (Currently Amended) The pump of ~~any one of claims 1 to 3~~ claim 1, wherein said relative displacement is greater than said relative movement.

- 5.- (Currently Amended) The pump of ~~any one of claims 2 to 4~~claim 2, wherein said main body (1) comprises a first annular lip (31) forming a hermetic seal with the outer wall of said tubular stem (27).
- 6.- (Currently Amended) The pump of ~~any one of claims 1 to 5~~claim 5, wherein said main body (1) comprises a second annular lip (37) forming a hermetic seal with an annular partition (35) disposed in said attachment body (3), said annular partition (35) surrounding a ventilation hole (33).
- 7.- (Currently Amended) The pump of ~~any one of claims 1 to 6~~, wherein: (a) it additionally comprises of claim 1 further comprising: (a) a head (5), where said head (5) ~~comprises~~includes said second surface (13), where said head (5) is made from a material having elastomeric properties adapted to be resiliently deformed by a manually applied force and has an external actuation surface (15) adapted to be deformed by a user's finger, (b) said discharge valve (43) ~~comprises~~includes a valve seat (45) and a moving member adapted to move between a first position, corresponding to said closed discharge valve (43) and in which said moving member contacts said valve seat (45), and a second position, corresponding to said open discharge valve (43), where said moving member extends from said head (5) forming a partition (41), where said moving member is integral with said head (5), and (c) when said moving member is in said first position, and there is a reduced pressure in said pumping chamber (17), said reduced pressure then exerts a force pressing said moving member against said valve seat (45).
- 8.- (Currently Amended) The pump of claim 7, wherein said partition (41) is a flat surface.
- 9.- (Currently Amended) The pump of claim 7, wherein said partition (41) is a cylindrical surface.
- 10.- (Currently Amended) The pump of claim 97, wherein said partition (41) is a cylinder surrounding said second surface (13).
- 11.- (Currently Amended) The pump of claim 107, wherein said valve seat (45) is formed by a second ~~also cylindrical~~ partition (47) disposed in said main body (1), where said second partition (47) surrounds said first surface (11).

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12.- (Currently Amended) The pump of ~~any one of claims 7 to 11~~claim 7, wherein said second surface-(13) is convexly curved towards thean outside of said pumping chamber-(17),~~preferably~~and is a spherical cap.

13.- (Currently Amended) The pump of ~~any one of claims 7 to 12~~claim 7, wherein said first surface-(11) has a concavely curved portion towards the interior of said pumping chamber-(17),~~preferably~~and is a spherical portion.

14.- (Currently Amended) The pump of claim 13, wherein said curved portion and said second surface-(13) make contact in thea limit of the stroke followed by said second surface-(13) during a pumping movement.

15.- (Currently Amended) The pump of claim 13 ~~or claim 14~~, wherein said curved portion has an external rim-(51) that is convex towards thean interior of said pumping chamber-(17).

16.- (Currently Amended) The pump of ~~any one of claims 7 to 15~~claim 7, wherein said valve seat (45) has a rounded contact surface-(53) with said moving member.

17.- (Currently Amended) The pump of ~~any one of claims 7 to 16~~claim 7, wherein said moving member has a contact portion-(55) with said valve seat-(45) having a thickness tapering down towards thea free end thereof.

18.- (Currently Amended) The pump of ~~any one of claims 7 to 17~~claim 7, having at least one column-(57) on said first surface-(11) extending towards said second surface-(13) and which is disposed at a portion proximate said discharge valve-(43).

19.- (Currently Amended) The pump of claim 18, wherein said at lest one columns-(57) ~~have~~has a height such as to contact said second surface-(13) when said second surface-(13) is in thean extended position thereof.